

Title: RecA MUTANTS  
Inventor(s): Michael M. Cox/Shelley L. Lusetti/Aimee L. Eggler  
Application No.:  
Docket Number: 960296.99501

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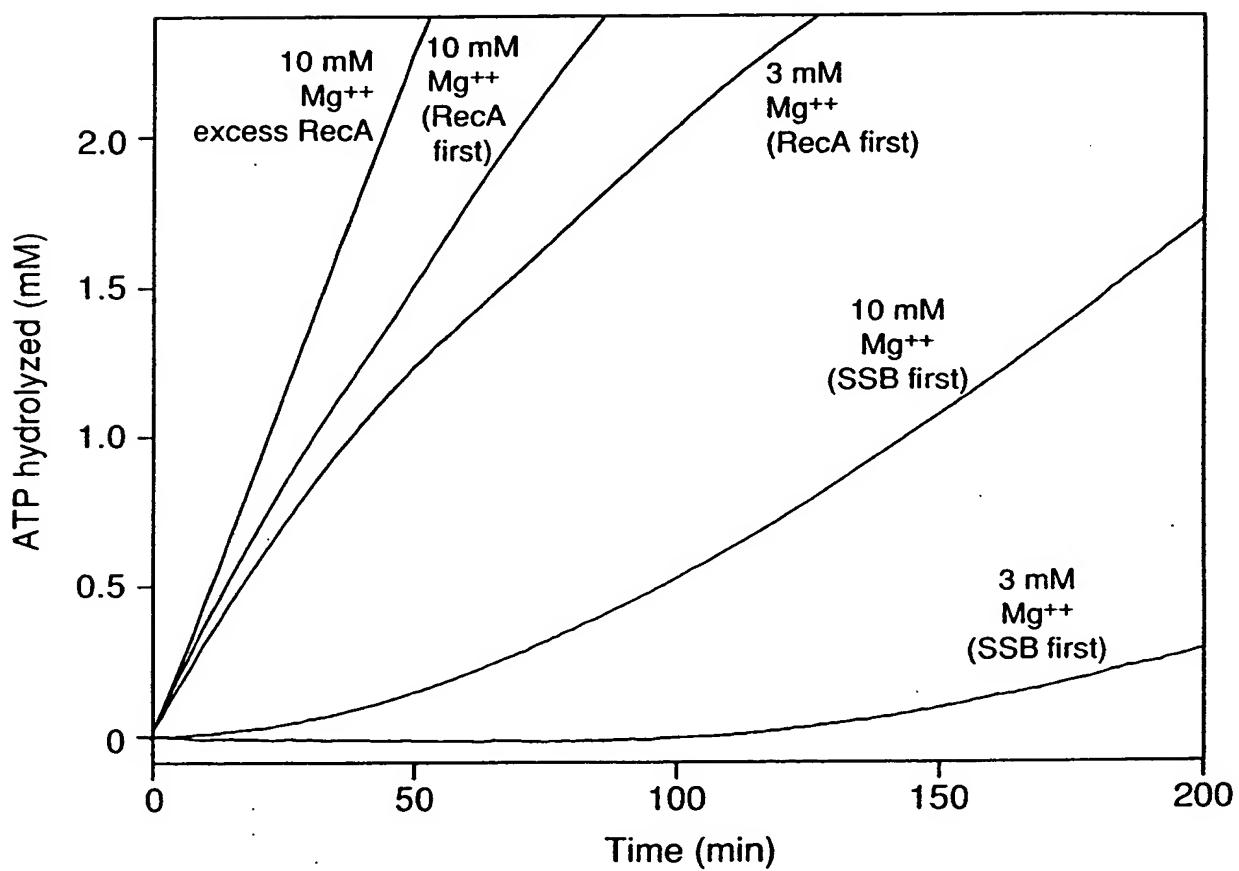
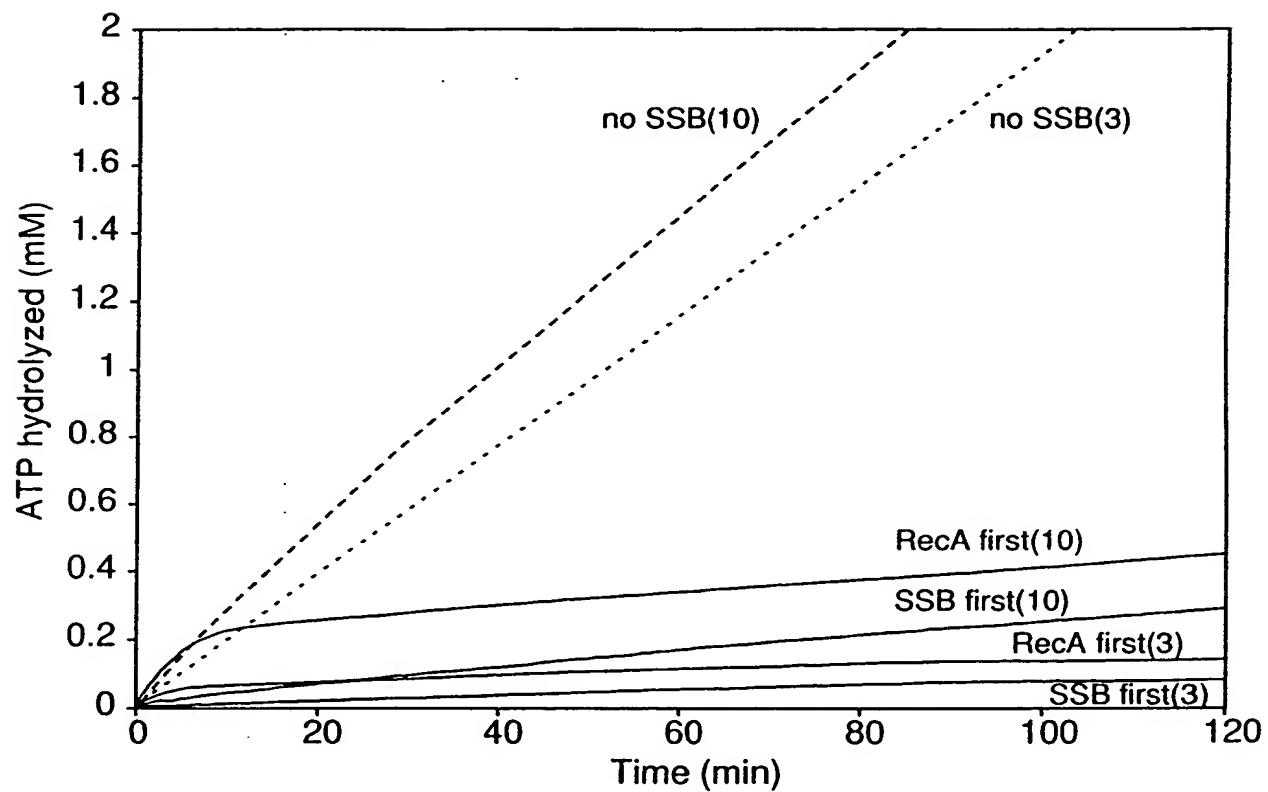


FIG 1

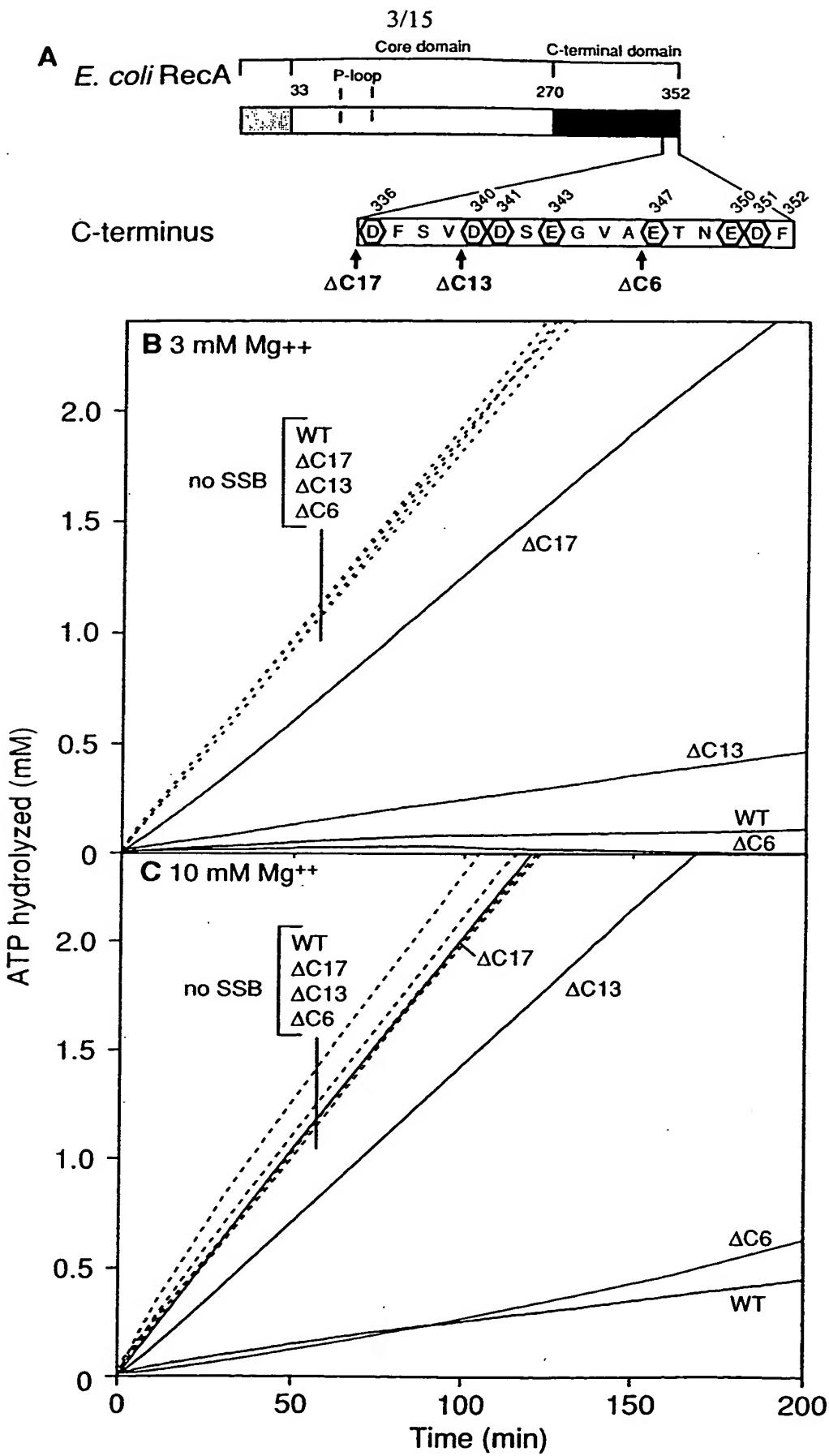
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**FIG 2**

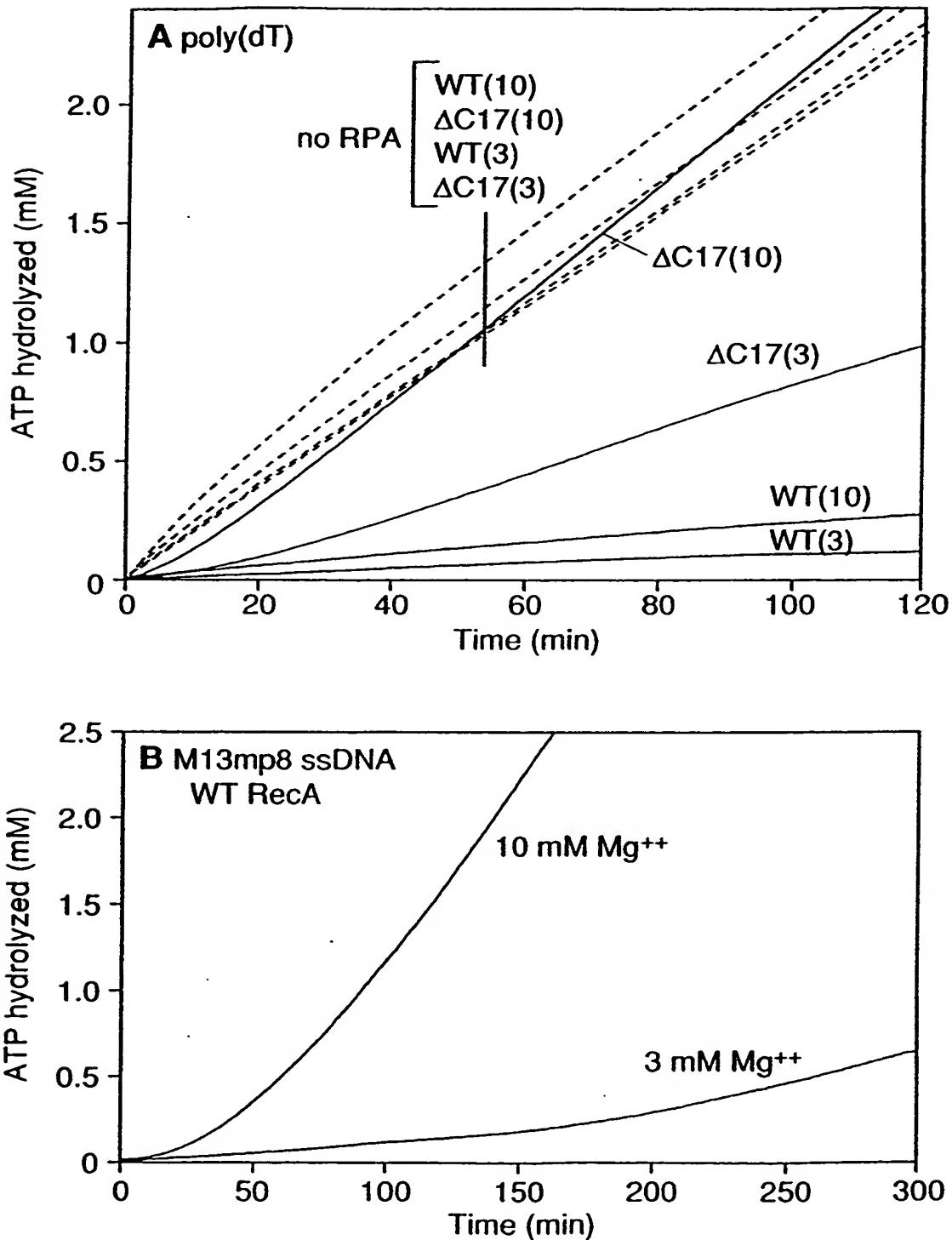
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**FIG 3**

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**FIG 4**

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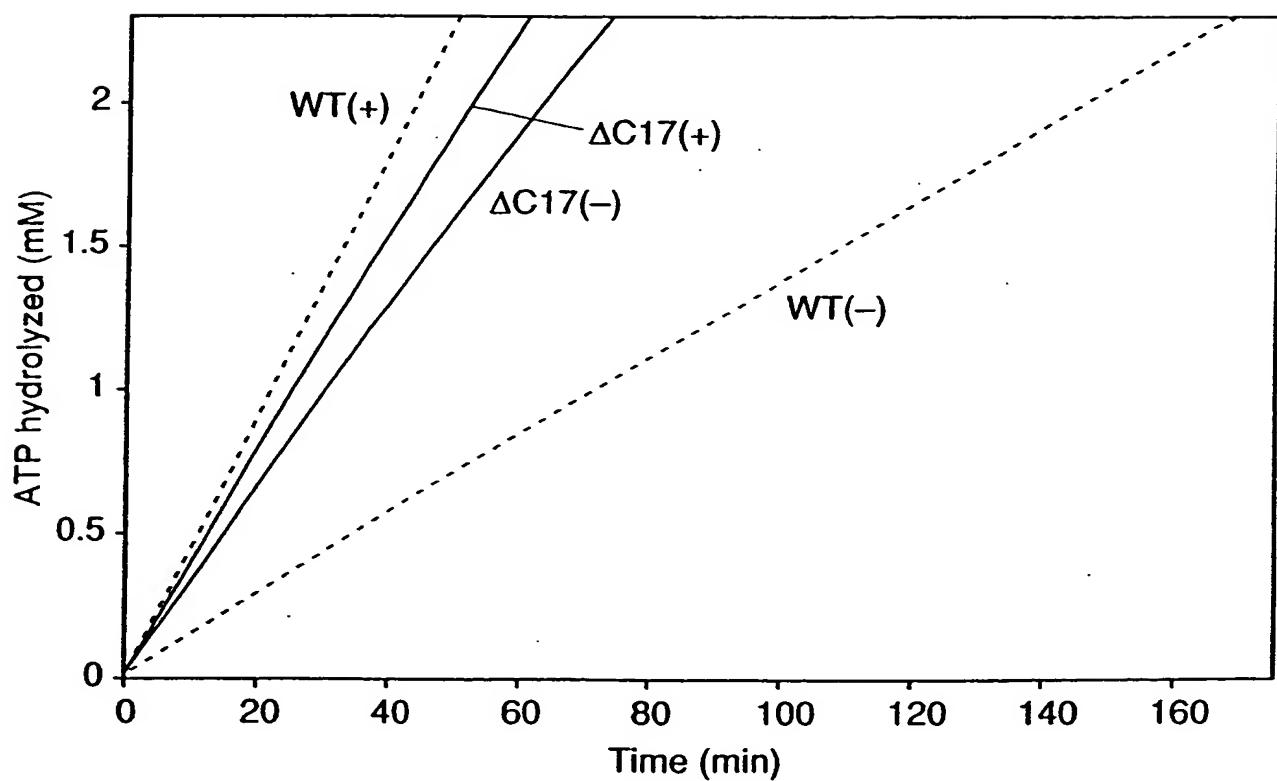
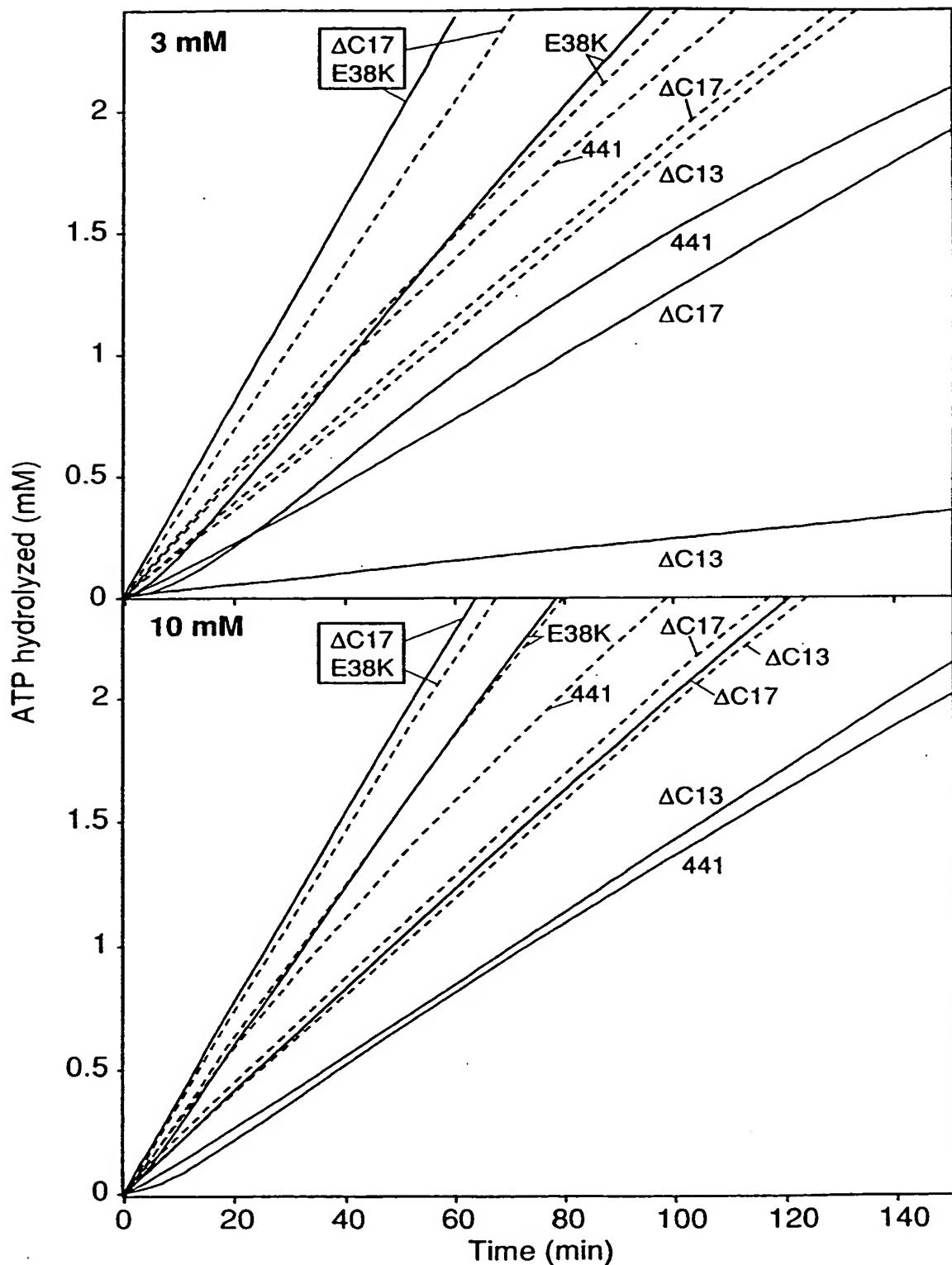


FIG 5

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**FIG 6**

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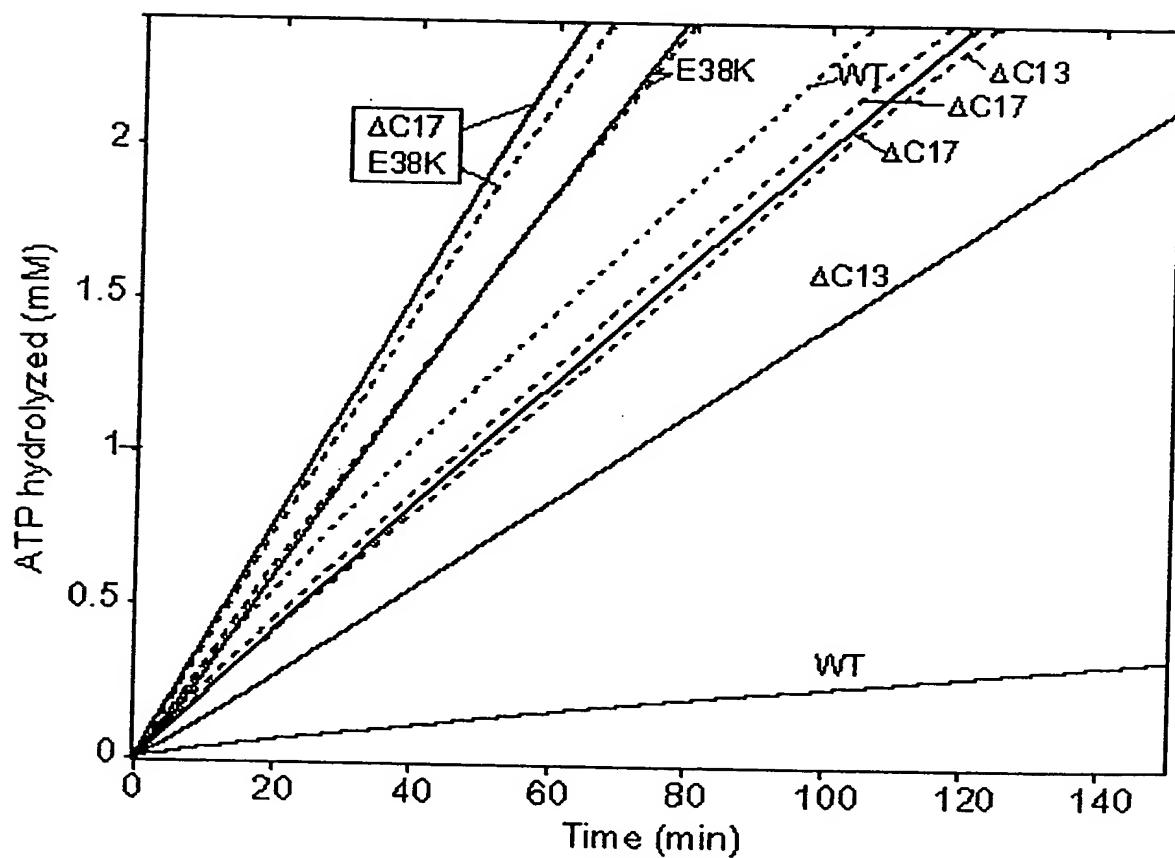


FIG 7

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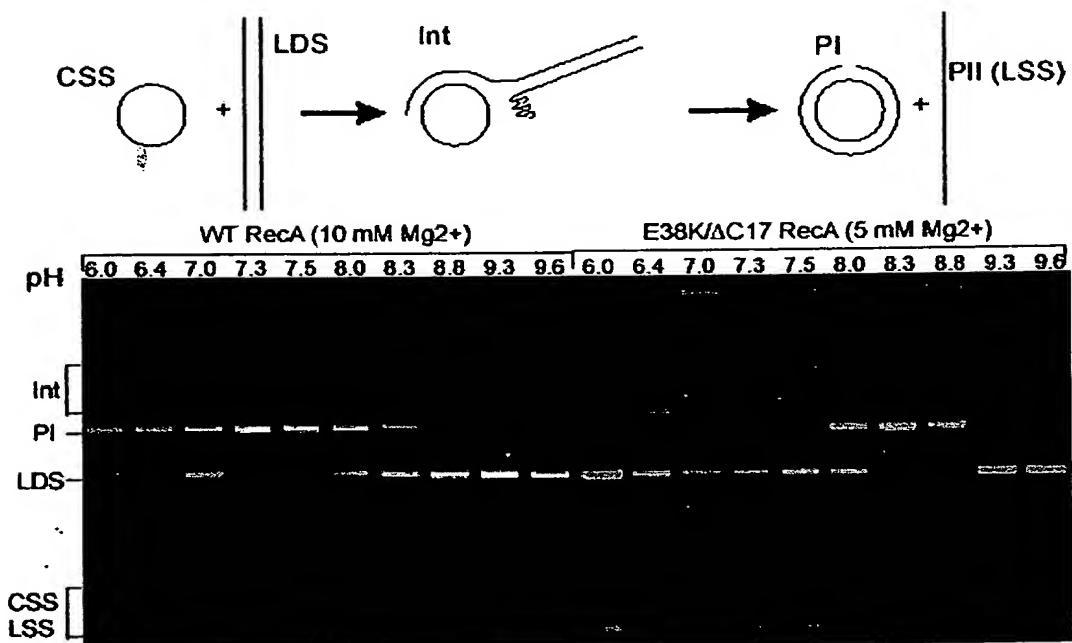


FIG 8

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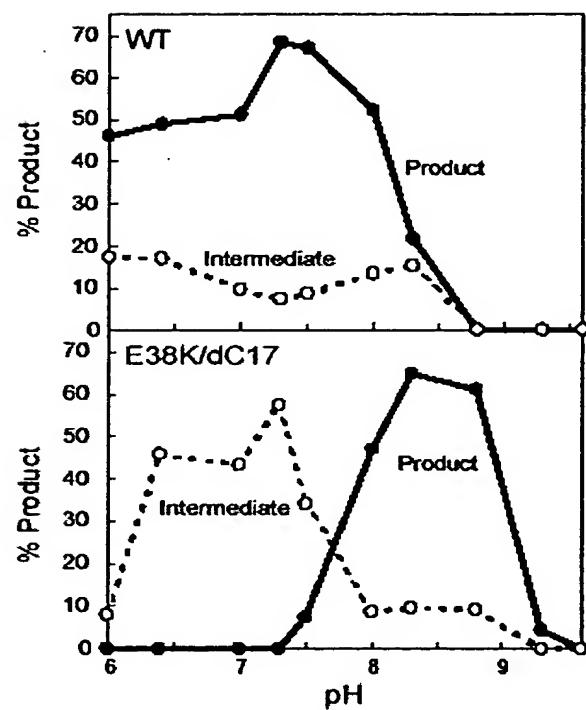


FIG 9

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**FIG 10**

Title: RecA MUTANTS  
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AIDENKQKA LAAALGQIEK QFGKGSIMRL GEDRSMDVET ISTGSLSDLI  
ALGAGGLPMG RIVEIYGPES SGKTTLTLQV IAAAQREGKT CAFIDAEHAL  
DPIYARKLGV DIDNLLCSQP DTGEQALEIC DALARSGAVD VIIVVDSVAAL  
TPKAEIEGEI GDSHMGLAAR MMSQAMRKLA GNLKQSNTLL IFINQIRMKI  
GVMFGNPETT TGGNALKFYA SVRLDIRRIG AVKEGENVVG SETRVKVVKN  
KIAAPFKQAE FQILYGEGIN FYGELVDLGV KEKLIEKAGA WYSYKGEKIG  
QGKANATAWL KDNPETAKEI EKKVRELLLS NPNSTP

**FIG 11**

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1 ATGGCTATCG ACGAAAACAA ACAGAAAAGCG TTGGCGGCAG CACTGGGCCA  
51 GATTGAGAAA CAATTTGGTA AAGGCTCCAT CATGCGCCTG GGTGAAGACC  
101 GTTCAATGGA TGTGGAAACC ATCTCTACCG GTTCGCTTTC ACTGGATATC  
151 GCGCTTGGGG CAGGTGGTCT GCCGATGGGC CGTATCGTCG AGATCTACGG  
201 ACCGGAATCT TCCGGTAAAAA CCACGCTGAC GCTGCAGGTG ATCGCCGCAG  
251 CGCAGCGTGA AGGTAAAACC TGTGCGTTA TCGATGCTGA ACACGCGCTG  
301 GACCCAATCT ACGCACGTAA ACTGGCGTC GATATCGACA ACCTGCTGTG  
351 CTCCCAGCCG GACACCGGCG AGCAGGCCT GGAAATCTGT GACGCCCTGG  
401 CGCGTTCTGG CGCAGTAGAC GTTATCGTCG TTGACTCCGT GGCGGCAGT  
451 ACGCCGAAAG CGGAAATCGA AGGCGAAATC GGCGACTCTC ACATGGGCCT  
501 TGCAGCACGT ATGATGAGCC AGGCGATGCG TAAGCTGGCG GTAAACCTGA  
551 AGCAGTCCAA CACGCTGCTG ATCTTCATCA ACCAGATCCG TATGAAAATT  
601 GGTGTGATGT TCGGTAACCC GGAAACCACT ACCGGTGGTA ACGCGCTGAA  
651 ATTCTACGCC TCTGTTCGTC TCGACATCCG TCGTATCGGC GCGGTGAAAG  
701 AGGGCGAAAAA CGTGGTGGGT AGCGAAACCC GCGTGAAAGT GGTGAAGAAC  
751 AAAATCGCTG CGCCGTTAA ACAGGCTGAA TTCCAGATCC TCTACGGCGA  
801 AGGTATCAAC TTCTACGGCG AACTGGTTGA CCTGGCGTA AAAGAGAAC  
851 TGATCGAGAA AGCAGGCGCG TGGTACAGCT ACAAAAGGTGA GAAGATCGGT  
901 CAGGGTAAAG CGAATGCGAC TGCCTGGCTG AAAGATAACC CGGAAACCGC  
951 GAAAGAGATC GAGAAGAAAG TACGTGAGTT GCTGCTGAGC AACCCGAAC  
1001 CAACGCCGTA A

**FIG 12**

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AIDENKQKA LAAALGQIEK QFGKGSIMRL GEDRSMDVKT ISTGSLSLDI  
ALGAGGLPMG RIVEIYGPES SGKTTLTLQV IAAAQREGKT CAFIDAEHAL  
DPIYARKLGV DIDNLLCSQP DTGEQALEIC DALARSGAVD VIVVDSVAAL  
TPKAEIEGEI GDSHMGLAAR MMSQAMRKLA GNLKQSNTLL IFINQIRMKI  
GVMFGNPETT TGGNALKFYA SVRLDIRRIG AVKEGENVVG SETRVKVVKN  
KIAAPFKQAE FQILYGEGIN FYGELVDLGV KEKLIEKAGA WYSYKGEKIG  
QGKANATAWL KDNPETAKEI EKKVRELLLS NPNSTP\*

**FIG 13**

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1 ATGGCTATCG ACGAAAACAA ACAGAAAGCG TTGGCGGCAG CACTGGGCCA  
51 GATTGAGAAA CAATTTGGTA AAGGCTCCAT CATGCGCCTG GGTGAAGACC  
101 GTTCCATGGA TGTGAAAACC ATCTCTACCG GTTCGCTTTC ACTGGATATC  
151 GCGCTTGGGG CAGGTGGTCT GCCGATGGC CGTATCGTCG AGATCTACGG  
201 ACCGGAATCT TCCGGTAAAA CCACGCTGAC GCTGCAGGTG ATCGCCGCAG  
251 CGCAGCGTGA AGGTAAAACC TGTGCCTTA TCGATGCTGA ACACGCGCTG  
301 GACCCAATCT ACGCACGTA ACTGGCGTC GATATCGACA ACCTGCTGTG  
351 CTCCCAGCCG GACACCGGCG AGCAGGCACT GGAAATCTGT GACGCCCTGG  
401 CGCGTTCTGG CGCAGTAGAC GTTATCGTCG TTGACTCCGT GGCGGCACTG  
451 ACGCCGAAAG CGGAAATCGA AGGCGAAATC GGCGACTCTC ACATGGGCCT  
501 TGCAGCACGT ATGATGAGCC AGGCGATGCG TAAGCTGGCG GGTAAACCTGA  
551 AGCAGTCCAA CACGCTGCTG ATCTTCATCA ACCAGATCCG TATGAAAATT  
601 GGTGTGATGT TCGGTAACCC GGAAACCACT ACCGGTGGTA ACGCGCTGAA  
651 ATTCTACGCC TCTGTTCGTC TCGACATCCG TCGTATCGGC GCGGTGAAAG  
701 AGGGCGAAAAA CGTGGTGGGT AGCGAAACCC GCGTGAAAGT GGTGAAGAAC  
751 AAAATCGCTG CGCCGTTAA ACAGGCTGAA TTCCAGATCC TCTACGGCGA  
801 AGGTATCAAC TTCTACGGCG AACTGGTTGA CCTGGCGTA AAAGAGAAC  
851 TGATCGAGAA AGCAGGCGCG TGGTACAGCT ACAAAAGGTGA GAAGATCGGT  
901 CAGGGTAAAG CGAATGCGAC TGCCTGGCTG AAAGATAACC CGGAAACCGC  
951 GAAAGAGATC GAGAAGAAAG TACGTGAGTT GCTGCTGAGC AACCCGAAC  
1001 CAACGCCGTA A

**FIG 14**

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AIDENKQKA LAAALGQIEK QFGKGSIMRL GEDRSMDVET ISTGSLSLDI  
ALGAGGLPMG RIVEIYGPES SGKTTLTLQV IAAAQREGKT CAFIDAEHAL  
DPIYARKLGV DIDNLLCSQP DTGEQALEIC DALARSGAVD VIIVVDSVAAL  
TPKAEIEGEI GDSHMGLAAR MMSQAMRKLA GNLKQSNTLL IFINQIRMKI  
GVMFGNPETT TGGNALKFYA SVRLDIRRIG AVKEGENVVG SETRVKVVKN  
KIAAPFKQAE FQILYGEGIN FYGELVDLGV KEKLIEKAGA WYSYKGEKIG  
QGKANATAWL KDNPETAKEI EKKVRELLS NPNSTPDFSV DDSEGVAETN EDF

**FIG 15**